PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 06\$1-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number,

11711 1777		Attorney Docket No.		612.42948X00			
UTILITY PATENT APPLICATION	First Inventor		LAILLY, PATRICK				
TRANSMITTAL		DISTRIBUTION		RMING A MODEL REPRESENTATIVE OF THE OF A PHYSICAL QUANTITY IN AN UNDERGROUND			
(Only for new nonprovisional applications under 37 CFR 1.53(b))		IN EXPLORATION					
		ail Label No.				ع ۾	
APPLICATION ELEMENTS		ADDRESS		ant Com	missioner for Patents	630690°	
SEE MPEP chapter 600 concerning utility patent application contents.		Washington, DC 20231					
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original end a duplicate for fee processing)			ROM or CD-R i		te, large table or	08306 10/	
Applicant claims small entity status. See 37 CFR 1.27.		fif applicabl	tide and/or Amino Acid Sequence Submission icable, all necessary) Computer Readable Form (CRF)				
3. Specification [Total Pages: 40]		b. Specification Sequence Listing on:					
(preferred arrangement aet forth below) -Descriptive title of the invention	i D CD-ROM or CD-R (2 copies); or						
-Cross Reference to Related Applications -Statement Regarding Fed sponsored R & D	ii 🗖 paper						
-Reference to sequence listing, a table, or a computer program listing appendix	c. Statements verifying identity of above copies						
-Background of the Invention -Brief Summary of the Invention	ACCOMPANYING APPLICATION PARTS						
-Brief Description of the Drawings (if filed) -Detailed Description -Claim(s)	Assignment Papers (cover sheet & documents(s))						
-Abstract of the Disclosure		10. 🔲 37 0					
4. Drawing(s) (35 U.S.C. 113) [Total Pages: 5]	(when there is an assignee) 11. English Translation Document (if applicable)						
5. Oath or Declaration [Total Pages:]		12. Information Disclosure Copies of IDS Citations					
a Newly executed (original or copy) b Copy from a prior application (37 CFR 1.63 (d))		Statement (IDS)/PTO-1449 13. Preliminary Amendment w/substitute specification					
b L. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)		13. Preliminary Amendment w/substitute specification 14. Return Receipt Postcard (MPEP 503)					
i. Deletion of inventor(s)	(Should be specifically itemized)						
Signed statement attached deleting inventor(s) Named in the prior application, see 37 CFR	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)						
1.63(d)(2) and 1.33(b)	16. Nonpublication Request under 35 U.S.C. 122						
6. Application Data Sheet. See 37 CFR 1.76		(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.					
	17. Other: Figs. 1-14, Credit Card Payment Form						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:							
Continuation Data Sheet under 57 CFT 1.70. Continuation Divisional Continuation-in-part (CIP) of prior application No.:							
Prior application information: Examiner: Group Art Unit:							
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under							
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
19. CORRESPONDENCE ADDRESS							
Customer Number or Bar Code Label (Insert Customer No. or Attach b		or Correspondence address below					
Name ANTONELLI, TERRY, STOUT & KRAUS, LLP							
Address							
City	State			Zip			
	Telephone	(703) 343 GG00		Code Fax	(703) 342 6666		
Name Donald E. Stout	reiepriorie	(703) 312-6600 Registration No. (<u> </u>	(703) 312-6666 26,422		
Signature Signature		<u> </u>	-, g	Date	July 31 2003		

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete if Known FEE TRANSMITTAL Application Number July 31, 2003 for FY 2003 Filing Date LAILLY, PATRICK First Named Inventor Examiner Name Effective 01/01/2003. Patent fees are subject to annual revision. Art Unit Applicant claims small entity status. See 37 CFR 1.27 Attorney Docket No. 612.42948X00 TOTAL AMOUNT OF PAYMENT (\$) 1,056.00 METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) ☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None 3. ADDITIONAL FEES Large Entity □ Deposit Account: **Entity** Deposit Account Number 01-2135 (\$) Code (\$) **Fee Description** Fee Paid Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP 1051 130 2051 65 Surcharge - late filing fee or oath The Commissioner authorized to: (check all that apply) 25 1052 50 2052 Surcharge - late provisional filing fee or ☐ Charge fees indicated below ☐ Credit any overpayments cover sheet ☑ Charge any additional fee(s) during the pendency of this 1053 1053 130 130 Non-English specification application
☐ Charge fees indicated below, except for the filing fee 1812 2,520 1812 2,520 For filing a request for ex parte reexamination to the above-identified deposit account. 1804 920* 1804 Requesting publication of SIR prior to Examination action **FEE CALCULATION** 1.840*Requesting publication of SIR after 1805 1.840* 1805 **BASIC FILING FEE** Examiner action **Entity Small Entity** Large 1251 110 2251 Extension for reply within first month Fee Fee Fee Description Fee Paid 1252 410 2252 205 Extension for reply within second month Code (\$) 2001 375 Code (\$) 750.00 Utility filing fee 750 1001 1253 930 2253 465 Extension for reply within third month 1002 330 2002 165 Design filing fee 1254 1.450 2254 725 Extension for reply within fourth month 1003 2003 260 Plant filing fee 1255 1.970 2255 Extension for reply within fifth month 985 1004 750 2004 375 Reissue filing fee 1401 320 2401 Notice of Appeal 160 1005 160 2005 80 Provisional filing fee 402 320 2402 Filing a brief in support of an appeal 1403 280 2403 Request for oral hearing 750.00 SUBTOTAL (1) 1451 1,510 1451 1,510 Petition to institute a public use proceeding 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1452 110 2452 55 Petition to revive - unavoidable Fee from 1453 1,300 2453 650 Petition to revive - unintentional **Extra Claims** below Fee Paid 1501 1.300 2501 650 Utility issue fee (or reissue) -20** = 17 306.00 Total Claims 37 x 18 1502 470 2502 235 Design issue fee -3** = 0 0 Indep. х 84 1503 630 2503 315 Plant issue fee Multiple Dependent 280 0 1406 130 1460 130 Petitions to the Commissioner 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) Small Entity Large Entity 1806 180 1806 180 Submission of Information Disclosure Stmt Fee Description Fee Fee Fee Fee 8021 Recording each patent assignment per 40 8021 40 Code Code (\$) (\$) property (times number of properties) 1202 2202 Claims in excess of 20 Filing a submission after final rejection 1809 750 2809 375 42 Independent claims in excess of 3 1201 2201 84 (37 ČFR § 1.129(a)) For each additional invention to be 1810 750 2810 375 1203 280 2203 140 Multiple dependent claim, if not paid examined (37 CFR § 1.129(b)) ** Reissue independent claims 750 2801 Request for Continued Examination (RCE) 1204 2204 42 1801 375 84 over original patent 1802 900 1802 900 Request for expedited examination of a design application ** Reissue claims in excess of 20 1205 18 2205 9 and over original patent Other fee (specify)_ SUBTOTAL (2) \$ 306.00 **or number previously paid, if greater; For Reissues, see above. *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00 SUBMITTED BY Complete (if applicable)

July 31, 2003 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

(Attorney/Agent)

26,422

Telephone

Date

703-312-6600

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Name (Print/Type)

Signature

Donald E. Stout